

AUTHOR INDEX

- Ali, M. A., 271
Ali, M. H., 517
Angyal, S. J., 171
Aspinall, G. O., 337, 357
- Barnes, J. C., 11
Berezenko, S., 505
Bernet, B., 149
Blake, A. J., 461
Bock, K., 141
Borbás, A., 413
Brennan, P. J., 337, 357
Brimacombe, J. S., 11
Broger, E. A., 149
Brown, D. M., 129
Brown, T., 315
Bundle, D. R., 67
- Camarasa, M.-J., 399
Cerny, M., 453
Chatterjee, D., 337, 357
Chernyak, A. Ya., 381
Chittenden, G. J. F., 79
Classon, B., 187
Coe, P. L., 237
Collins, P. M., 517
Comber, R. N., 441
Crane, A. M., 337
- Decock, P., 453
Defaye, J., 141
De las Heras, F. G., 399
De Raadt, A., 93
Desai, T., 197
Díaz-Ortiz, A., 399
Dutton, G. G. S., 495
Dyson, M. R., 237
- Ewing, D. F., 109
- Félix, A. S., 399
Ferrier, R. J., 93
Fraser Reid, B., 323
Fuentes Mota, J., 21
- Gadelle, A., 141
Gammon, D. W., 337
Garcia Fernandez, J. M., 21
Garegg, P. J., 187
Génu-Dellac, C., 249
Gigg, J., 197
- Gigg, R., 197
Gosselin, G., 249
Gould, R. O., 461
Gray, R. J., 441
- Haines, A. H., 523
Hajkó, J., 413
Haudrechy, A., 375
Helpap, B., 289
Hewedi, F., 109
Hicks, N., 1
Holý, A., 109, 179
Horton, D., 33, 51
Hough, L., 271
Howarth, O. W., 1
Hřebabeký, H., 179
Hughes, N. A., 119
Humble, R. W., 109
Hutchinson, D. W., 1
- Ibrahim, I. H., 337
Iijima, H., 211
Imbach, J.-L., 249
- Jeżowska-Bojczuk, M., 453
- Kajtár-Peredy, M., 413
Katrana, D., 523
Khare, N. K., 337, 357
Kihlberg, J., 67
Klaflke, W., 475
Kleineidam, R. G., 61
Kochetkov, N. K., 381
Kong Thoo Lin, P., 129
Kononov, L. O., 381
Konradsson, P., 323
Kozłowski, H., 453
- Lee Wing, P., 495
Li, C., 149
Lipták, A., 413
- Mackenzie, G., 109
Maier, T., 483
Mann, J., 511
Marriott, J. H., 257
McGhie, K. E., 461
Meili, A., 149
Mottahedeh, M., 257
Munkombwe, M., 119

Nakahara, Y., 211

Ogawa, T., 211

Ortiz Mellet, C., 21

Oscarson, S., 187

Overend, W. G., 517

Parolis, H., 495

Parolis, L. A. S., 495

Paton, R. M., 461

Paulsen, H., 289

Payne, S., 197

Pedersen, C., 141

Penades, S., 197

Pérez-Pérez, M.-J., 399

Pfleiderer, W., 421

Pradera Adrian, M. A., 21

Pritchard, C. E., 315

Ratcliffe, A. J., 323

Reed, D., 461

Reese, C. B., 257

Regeling, H., 79

Richardson, A. C., 271

Rivoire, B., 337, 357

Rogers, H. J., 197

Ruf, K., 421

Sadler, I. H., 461

Schauer, R., 61

Schmidt, R. R., 483

Schreiner, E., 61

Secrist III, J. A., 441

Shaw, G., 109

Shibayama, S., 211

Sinaÿ, P., 375

Skura, B. J., 495

Sood, R. K., 357

Springer, D., 475

Sturgeon, R. J., 505

Szabó, L., 227

Szabó, P., 227

Thiem, J., 475

Tidén, A.-K., 187

Todhunter, N. D., 119

Trnka, T., 453

Usui, T., 33, 51

Vasella, A., 149

Votruba, I., 109

Walker, R. T., 237

Weymouth-Wilson, A., 511

Will, D. W., 315

Young, A. A., 461

Zbiral, E., 61

SUBJECT INDEX

- Acetals of carbohydrates, preparation of dioxolane-type fluoren-9-ylidene, and their hydrogenolysis with AlClH_2 to give axial fluoren-9-yl ethers, 413
- Acyclic analogues of pyrazofurin, synthesis and antiviral evaluation, 441
- Acyclic sugars, unsaturated, transformations of, into enantiomerically pure norbornene derivatives, 33
- Adenine–guanine analogues, synthesis and duplex stability of oligonucleotides containing, 129
- Adenosine, synthesis of 2'-thio-, 257
- Aldol-type cyclocondensation, stereospecific synthesis of branched-chain sugars by a novel, 399
- Allylation of dibutylstannylene derivatives of *myo*-inositol, 197
- Allyl glycosides for conversion into neoglycoproteins bearing epitopes of mycobacterial glycolipid antigens, synthesis, 337
- Allyl glycosides of the outer di- and tri-saccharide units of the antigens of *M. avium* serovars 14 and 20, synthesis and serology of the derived neoglycoproteins, 357
- Aminodeoxy derivatives of 1,6-anhydro- β -D-glucopyranose, potentiometric and spectroscopic studies of the binding of copper(II) ions by, 453
- Analogues of pyrazofurin, syntheses and antiviral evaluation of acyclic, 441
- 1,3'-Anhydro-3-C-hydroxymethylaldoses, a new type of anhydro sugar, 171
- Antibody binding-site probes, synthesis of a hexasaccharide and two pentasaccharides (related to the *Brucella* A antigen) as, 67
- Antigen that corresponds to a disaccharide repeating unit of the capsular polysaccharide of *Haemophilus influenzae* type d, synthesis of an artificial, 187
- Antigens of *M. avium* serovars 14 and 20, synthesis of allyl glycosides of the outer di- and tri-saccharide units of, and serology of the derived neoglycoproteins, 357
- Approaches to the C-B-A trisaccharide of dihydroaeracinomycin by extending the chain from either side, 475
- L-Arabinofuranose and 2-deoxy-L-erythro-pentofuranose, synthesis of new acylated derivatives of, 249
- Ascorbic acid, cyclic polyethers derived from 5,6-O-isopropylidene-L-, 523
- 1-(3-Azido-2,3-dideoxy- β -D-allofuranosyl)thymine and related nucleosides, synthesis of, 179
- Benzyl 3,5-di-O-benzyl-2-deoxy-1,4-dithio-D-erythro-pentofuranoside, an improved synthesis of, 237
- Bisphosphines, synthesis and evaluation in asymmetric hydrogenation of carbohydrate-derived 1,3-, 149
- Branched-chain sugars, formation of 1,3'-anhydrides, 171
- Branched-chain sugars, stereospecific synthesis by a novel aldol-type cyclocondensation, 399
- Brucella* A antigen, synthesis of a hexasaccharide and two pentasaccharides related to the, by *in situ* activation of thioglycosides with bromine, 67
- Capsular antigen K54 from *Escherichia coli* O6:K54:H10, synthesis of carbohydrate-amino acid conjugates related to the, 381
- Carbohydrate-amino acid conjugates related to the capsular antigen K54 from *Escherichia coli* O6:K54:10 and artificial antigens therefrom, synthesis of, 381
- Carbohydrate-derived 1,3-bisphosphines, synthesis and evaluation in asymmetric hydrogenation, 149
- Chrysanthemic acid, a new approach to the synthesis of *cis*-, 511
- Complex-N-glycoprotein, synthesis of partial structures of, 289
- Conformations of 7,8-dideoxy-1,2:3,4-di-O-isopropylidene- α -D-glycero-D-galacto- and - β -L-glycero-D-galacto-oct-7-enopyranose, crystallographic, 11
- Copper (II) binding by aminodeoxy derivatives of 1,6-anhydro- β -D-glucopyranose, potentiometric and spectroscopic studies of, 453
- Crystallographic conformations of 7,8-dideoxy-1,2:3,4-di-O-isopropylidene- α -D-glycero-D-galacto- and - β -L-glycero-D-galacto-oct-7-enopyranose, 11
- Cyclic polyethers derived from 5,6-O-isopropylidene-L-ascorbic acid, 523
- Cycloaddition of nitrile oxides to 3-O-benzyl-5,6-dideoxy-1,2-O-isopropylidene- α -D-ribo-hex-5-enofuranose, 461
- Cyclopentanes, optically pure di- to tetra-substituted, synthesis of, from sugar-derived norbornene derivatives, 51
- Decarboxyneuraminic acid analogue, synthesis of methyl 4-acetamido-2,4-dideoxy-D-glycero-D-galacto-octopyranoside as a, 483

- 2-Deoxy-4-*O*- α - and - β -D-mannopyranosyl-L-erythro-pentonic acids, synthesis of, 227
- 2-Deoxy-L-erythro-pentofuranose and L-arabinofuranose, synthesis of new acylated derivatives of, 249
- 1-(2-Deoxy-D-erythro-pentofuranosyl)imidazole nucleosides, synthesis by chemical and biotransformation methods of 4- and 5-amino-, 109
- Dibutylstannylene derivatives of *myo*-inositol, the allylation of, 197
- 5,6-Dichlorobenzimidazole 2' \rightarrow 5'- and 3' \rightarrow 5'-nucleotide dimers and trimers, synthesis and properties of, 421
- 2,3-Didehydro-2-deoxysialic acids structurally varied at C-5 and their behaviour towards the sialidase from *Vibrio cholerae*, 61
- Dihexulose dianhydrides, steric and electronic effects in the hydrogen fluoride-catalysed formation of, 141
- Dihydroalacinomycin by extending the chain from either side, approaches to the C-B-A trisaccharide of, 475
- 2,4-Dinitrophenyl reporter groups, synthesis of oligonucleotides that contain, 315
- Disaccharide repeating unit of the capsular polysaccharide of *Haemophilus influenzae* type d, synthesis of an artificial antigen that corresponds to a, 187
- 1,4-Dithio-D-erythro-pentofuranoside, an improved synthesis of benzyl 3,5-di-*O*-benzyl-2-deoxy-, 237
- Enzymic determination of D-mannitol with mannitol dehydrogenase from *Agaricus bisporus*, 505
- Epidithio and thio derivatives of methyl β -lactoside, 271
- Fluoren-9-ylidene acetals of carbohydrates, preparation and hydrogenolysis with AlCl_3 of dioxolane-type, 413
- D-Glucono-1,5-lactone, synthesis of some trideoxy-D-hexoses and derivatives thereof from, 79
- N-Glycopeptides, application of *n*-pentenyl glycosides in the regio- and stereo-controlled synthesis of α -linked, 323
- Glycopeptides bearing the dimeric and trimeric sialosyl-Tn epitope, stereoselective total synthesis of, 211
- N-Glycoprotein, complex, synthesis of partial structures of, 289
- N-Glycoprotein, synthesis of partial structures of complex, 289
- Glycosides and isopropylidene derivatives of 5-thio-L-idose, synthesis of, 119
- Glycosides, syntheses and reactions of saturated and 2,3-unsaturated vinyl and 1'-substituted-vinyl, 93
- Glycosylamino-oxazolines, syntheses of β -iodourea derivatives of carbohydrates and, 21
- Glycosyl ring in thymidine and uridine nucleosides, n.m.r. studies of the flexibility of the, 1
- Heptofuran-6-enose, a short synthesis from D-glucurone of 1,2,3-tris(*tert*-butyldimethylsilyl)-6,7-dideoxy-6-C-methyl- α -D-gluc-, 517
- Hexasaccharide and two pentasaccharides related to the *Brucella* A antigen, preparation by *in situ* activation of thioglycosides with bromine, 67
- Hydrogen fluoride, steric and electronic effects in the formation of dianhydrides by the treatment of racemic sorbose with, 141
- 3-C-Hydroxymethylaldoses, formation of 1,3'-anhydrides, 171
- Imidazole nucleosides, synthesis by chemical and biotransformation methods of 4- and 5-amino-1-(2-deoxy-D-erythro-pentofuranosyl)-, 109
- myo*-Inositol, the allylation of dibutylstannylene derivatives of, 197
- β -Iodourea derivatives of carbohydrates and glycosylamino-oxazolines, syntheses of, 21
- β -Lactoside, thio and epidithio derivatives of methyl, 271
- Mannitol dehydrogenase from *Agaricus bisporus*, the enzymic determination of D-mannitol with, 505
- D-Mannitol, enzymic determination with mannitol dehydrogenase from *Agaricus bisporus*, 505
- Methyl 2-acetamido-2-deoxy- β -D-mannopyranoside, synthesis of, 187
- Methyl 4-acetamido-2,4-dideoxy-D-glycero-D-galacto-octopyranoside, synthesis as a decarboxyneuraminic acid analogue, 483
- Mycobacterial glycolipid antigens, neoglycoproteins bearing epitopes of, 337
- Mycobacterium avium* serovar 20, structure of the glycopeptidolipid antigen of, 357
- Neoglycoproteins bearing epitopes of mycobacterial glycolipid antigens, synthesis of precursor allyl glycosides and their conversion, 337
- New approach to the synthesis of *cis*-chrysanthemic acid, 511
- Nitrile oxides, cycloaddition to 3-*O*-benzyl-5,6-dideoxy-1,2-*O*-isopropylidene- α -D-ribo-hex-5-enofuranose, 461
- N.m.r. studies of the flexibility of the glycosyl ring in thymidine and uridine nucleosides, 1

- Norbornene derivatives, enantiomerically pure, transformations of unsaturated acyclic sugars into, 33
- Norbornene derivatives, sugar-derived, synthesis of optically pure di- to tetra-substituted cyclopentanes from, 51
- Novel type of spiroketalisation on pyranoses, 375
- Nucleotide dimers and trimers, synthesis and properties of 5,6-dichlorobenzimidazole 2'→5'- and 3'→5'-, 421
- Oct-7-enopyranose, crystallographic conformations of 7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene- α -D-glycero-D-galacto- and - β -L-glycero-D-galacto-, 11
- Oligonucleotides containing adenine-guanine analogues, synthesis and duplex stability of, 129
- Oligonucleotides that contain 2,4-dinitrophenyl reporter groups, synthesis of, 315
- n*-Pentenyl glycosides, application in the regio- and stereo-controlled synthesis of α -linked *N*-glycopeptides, 323
- Pentonic acids, synthesis of 2-deoxy-4-*O*- α - and - β -D-mannopyranosyl-L-erythro-, 227
- Polyethers derived from 5,6-*O*-isopropylidene-L-ascorbic acid, cyclic, 523
- Polysaccharide of *Pseudomonas fragi* ATCC 4973, structure of the glycocalyx, 495
- Potentiometric and spectroscopic studies of the binding of copper(II) ions by aminodeoxy derivatives of 1,6-anhydro- β -D-glucopyranose, 453
- Preparation of dioxolane-type fluoren-9-ylidene acetals of carbohydrates and their hydrogenolysis with AlClH_2 to give axial fluoren-9-yl ethers, 413
- Preparation of new acylated derivatives of L-arabinofuranose and 2-deoxy-L-erythro-pentofuranose as precursors for the synthesis of L-pentofuranosyl nucleosides, 249
- Pseudomonas fragi* ATCC 4973, structure of the glycocalyx polysaccharide of, 495
- Pyranoses, a novel type of spiroketalisation on, 375
- Pyrazofurin, syntheses and antiviral evaluation of acyclic analogues of, 441
- Regio- and stereo-controlled synthesis of α -linked *N*-glycopeptides, application of *n*-pentenyl glycosides in the, 323
- Sialic acids, C-5 structural variants of 2,3-didehydro-2-deoxy, and their behaviour towards the sialidase from *Vibrio cholerae*, 61
- Sialosyl-Tn epitope, stereoselective total synthesis of glycopeptides bearing the dimeric and trimeric, 211
- Spiroketalisation on pyranoses, a novel type of, 375
- Stereoselective total synthesis of glycopeptides bearing the dimeric and trimeric sialosyl-Tn epitope, 211
- Stereospecific synthesis of branched-chain sugars by a novel aldol-type cyclocondensation, 399
- Steric and electronic effects in the formation of dihexulose dianhydrides: reaction of racemic sorbose in anhydrous hydrogen fluoride and a facile synthesis of D-sorbose, 141
- Structure of the glycocalyx polysaccharide of *Pseudomonas fragi* ATCC 4973, 495
- Sugars, unsaturated, acyclic, transformations of, into enantiomerically pure norbornene derivatives, 33
- Synthesis and reactions of saturated and 2,3-unsaturated vinyl and 1'-substituted-vinyl glycosides, 93
- Syntheses of β -iodourea derivatives of carbohydrates and glycosylamino-oxazolines, 21
- synthesis and duplex stability of oligonucleotides containing adenine-guanine analogues, 129
- Synthesis and evaluation in asymmetric hydrogenation of carbohydrate-derived 1,3-bisphosphines, 149
- Synthesis and properties of 5,6-dichlorobenzimidazole 2'→5'- and 3'→5'- nucleotide dimers and trimers, 421
- Synthesis of carbohydrate-amino acid conjugated related to the capsular antigen K54 from *Escherichia coli* O6: K54:H10 and artificial antigens therefrom, 381
- Synthesis of 4- and 5-amino-1-(2-deoxy-D-erythro-pentofuranosyl)imidazole nucleosides by chemical and biotransformation methods, 109
- Synthesis of 1-(3-azido-2,3-dideoxy- β -D-allofuranosyl)thymine and related nucleosides, 179
- Synthesis of benzyl 3,5-di-*O*-benzyl-2-deoxy-1,4-dithio-D-erythro-pentofuranoside, an improved, 237
- Synthesis of *cis*-chrysanthemic acid, a new approach to the, 511
- Synthesis of 2-deoxy-4-*O*- α - and - β -D-mannopyranosyl-L-erythro-pentonic acids, 227
- Synthesis of derivatives of 5-thio-L-idose, 119
- Synthesis of methyl 4-acetamido-2,4-dideoxy-D-glycero-D-galacto-octopyranoside, a decarboxyneuraminic acid analogue, 483
- Synthesis of oligonucleotides that contain 2,4-dinitrophenyl reporter groups, 315
- Synthesis of optically pure tri- to tetra-substituted cyclopentanes from sugar-derived norbornene derivatives, 51

Synthesis of some trideoxy-D-hexoses and derivatives thereof from D-glucono-1,5-lactone, 79

Synthesis of 2'-thioadenosine, 257

Synthesis of 1,2,3-tris(*tert*-butyldimethylsilyl)-6,7-dideoxy-6-*C*-methyl- α -*gluco*-heptofuran-6-enose from D-glucurone, a short, 517

2'-Thiadenosine, synthesis of, 257

Thio and epidithio derivatives of methyl β -lactoside, 271

5-Thio-L-idose, synthesis of derivatives of, 119

Thymidine and uridine nucleosides, n.m.r. studies of the flexibility of the glycosyl ring in, 1

Thymine, synthesis of 1-(3-azido-2,3-dideoxy- β -D-allofuranosyl)-, 1-(2,3-dideoxy- β -D-allofuranosyl)-, and 1-(2,3-dideoxy- β -D-*erythro*-hex-2-enofuranosyl)-, 179

Trideoxy-D-hexoses and derivatives thereof, synthesis from D-glucono-1,5-lactone, 79

Trisaccharide of dihydroaeracinomycin by extending the chain from either side, approaches to the C-B-A, 475

1,2,3-Tris(*tert*-butyldimethylsilyl)-6,7-dideoxy-6-*C*-methyl- α -D-*gluco*-heptofuran-6-enose, a short synthesis from D-glucurone, 517

Unsaturated acyclic sugars, transformations of, into enantiomerically pure norbornene derivatives, 33

Vibrio cholerae sialidase, behaviour of C-5 structural variants of 2,3-didehydro-2-deoxysialic acids towards, 61

Vinyl and 1'-substituted-vinyl glycosides, syntheses and reactions of saturated and 2,3-unsaturated, 93

